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ATTORNEY DOCKET NO. FIRST NAMED INVENTOR FILING DATE APPLICATION NO. KUDAS 02724798 09/030,051

DAVID F DOCKERY SUITE B 6 8000 E PRENTICE AVE ENGLEWOOD CO 80111



MM71/0601

**EXAMINER** DINKINS, A

ART UNIT PAPER NUMBER 2831

DATE MAILED:

Please find below and/or attached an Office communication concerning this application or proceeding.

Commissioner of Patents and Trademarks

## Office Action Summary

Application No. 09/030,051

licant(s)

KODAS et al.

Examiner

**Anthony Dinkins** 

Group Art Unit

2831

Responsive to communication(s) filed on <u>Feb 24, 1998</u>	•
This action is <b>FINAL</b> .	
Since this application is in condition for allowance except for in accordance with the practice under Ex parte Quayle, 1935	C.D. 11; 453 O.G. 213.
A shortened statutory period for response to this action is set to s longer, from the mailing date of this communication. Failure to application to become abandoned. (35 U.S.C. § 133). Extension 37 CFR 1.136(a).	o respond within the period for response will cause the
Disposition of Claims	
	is/are pending in the application:
Of the above, claim(s)	is/are withdrawn from consideration.
Claim(s)	
Claim(s)	
Claim(s)	is/are objected to.
	are subject to restriction or election requirement.
Application Papers  See the attached Notice of Draftsperson's Patent Drawing	Review, PTO-948.
The drawing(s) filed on is/are object	
☐ The proposed drawing correction, filed on	
The specification is objected to by the Examiner.	
The oath or declaration is objected to by the Examiner.	
Priority under 35 U.S.C. § 119	, and the second
Acknowledgement is made of a claim for foreign priority	under 35 U.S.C. § 119(a)-(d).
☐ All ☐ Some* ☐ None of the CERTIFIED copies of	
_ received.	
received in Application No. (Series Code/Serial Num	nber) ·
received in this national stage application from the	•
*Certified copies not received:	
Acknowledgement is made of a claim for domestic priorit	y under 35 U.S.C. 3 119(e).
Attachment(s)	
☐ Notice of References Cited, PTO-892	
☐ Information Disclosure Statement(s), PTO-1449, Paper No.	D(S).
☐ Interview Summary, PTO-413	0
☐ Notice of Draftsperson's Patent Drawing Review, PTO-94	••
☐ Notice of Informal Patent Application, PTO-152	
SEE OFFICE ACTION ON T	THE FOLLOWING PAGES

Art Unit: 2831

## Election/Restriction

- 1. Restriction to one of the following inventions is required under 35 U.S.C. 121:
  - Claims 1-90, are drawn to a powder batch comprising copper metal particles, classified in class 106, subclass 403.
  - II. Claims 92-118, are drawn to a thick-film paste composition, classified in class 106, subclass 287.35.
  - III. Claims 119-139, are drawn to a green body and an intermediate component classified in class 428, subclass 701.
  - IV. Claims 91 and 139-141, are drawn to a multilayer ceramic capacitor, classified in class 361, subclass 321.2.
  - V. Claims 142-221, drawn to a method for the production of copper metal particles, classified in class 75, subclass 331.
- 2. Inventions I and II are related as combination and subcombination. Inventions in this relationship are distinct if it can be shown that (1) the combination as claimed does not require the particulars of the subcombination as claimed for patentability, and (2) that the subcombination has utility by itself or in other combinations (MPEP § 806.05(c)). In the instant case, the combination as claimed does not require the particulars of the subcombination as claimed because the combination does not require a particle size distribution wherein at least about 90 weight percent of the particles are not larger than twice the average particle size. The subcombination has separate utility such as the powder batch could be use to fabricate another energy storage device i.e., battery.

Page 3

Application/Control Number: 09/030,051

Art Unit: 2831

- 3. Inventions I and III are related as combination and subcombination. Inventions in this relationship are distinct if it can be shown that (1) the combination as claimed does not require the particulars of the subcombination as claimed for patentability, and (2) that the subcombination has utility by itself or in other combinations (MPEP § 806.05(c)). In the instant case, the combination as claimed does not require the particulars of the subcombination as claimed because the combination does not require a particle size distribution wherein at least about 90 weight percent of the copper metal particles are not larger than twice the average particle size. The subcombination has separate utility such as the green body could be use to fabricate another electronic device, i.e., resistor.
- 4. Inventions I and IV are related as mutually exclusive species in an intermediate-final product relationship. Distinctness is proven for claims in this relationship if the intermediate product is useful to make other than the final product (MPEP § 806.04(b), 3rd paragraph), and the species are patentably distinct (MPEP § 806.04(h)). In the instant case, the intermediate product is deemed to be useful as a resistor or battery and the inventions are deemed patentably distinct since there is nothing on this record to show them to be obvious variants. Should applicant traverse on the ground that the species are not patentably distinct, applicant should submit evidence or identify such evidence now of record showing the species to be obvious variants or clearly admit on the record that this is the case. In either instance, if the examiner finds one of the inventions anticipated by the prior art, the evidence or admission may be used in a rejection under 35 U.S.C. 103(a) of the other invention.

Art Unit: 2831

5. Inventions I and V are related as process of making and product made. The inventions are distinct if either or both of the following can be shown: (1) that the process as claimed can be used to make other and materially different product or (2) that the product as claimed can be made by another and materially different process (MPEP § 806.05(f)). In the instant case the particles could be made by atomizing or chemical vapor deposition.

- 6. Inventions II and III are related as combination and subcombination. Inventions in this relationship are distinct if it can be shown that (1) the combination as claimed does not require the particulars of the subcombination as claimed for patentability, and (2) that the subcombination has utility by itself or in other combinations (MPEP § 806.05(c)). In the instant case, the combination as claimed does not require the particulars of the subcombination as claimed because the combination does not require a particle size distribution wherein at least about 90 weight percent of the copper metal particles are not larger than twice the average particle size. The subcombination has separate utility such as the green body could be use to fabricate another electronic device, i.e., resistor.
- 7. Inventions II and IV are related as mutually exclusive species in an intermediate-final product relationship. Distinctness is proven for claims in this relationship if the intermediate product is useful to make other than the final product (MPEP § 806.04(b), 3rd paragraph), and the species are patentably distinct (MPEP § 806.04(h)). In the instant case, the intermediate product is deemed to be useful as a resistor or battery and the inventions are deemed patentably distinct since there is nothing on this record to show them to be obvious variants. Should applicant traverse on the ground that the species are not patentably distinct, applicant should

Art Unit: 2831

submit evidence or identify such evidence now of record showing the species to be obvious variants or clearly admit on the record that this is the case. In either instance, if the examiner finds one of the inventions anticipated by the prior art, the evidence or admission may be used in a rejection under 35 U.S.C. 103(a) of the other invention.

- 8. Inventions II and V are related as process of making and product made. The inventions are distinct if either or both of the following can be shown: (1) that the process as claimed can be used to make other and materially different product or (2) that the product as claimed can be made by another and materially different process (MPEP § 806.05(f)). In the instant case the particles could be made by atomizing or chemical vapor deposition.
- 9. Inventions III and IV are related as mutually exclusive species in an intermediate-final product relationship. Distinctness is proven for claims in this relationship if the intermediate product is useful to make other than the final product (MPEP § 806.04(b), 3rd paragraph), and the species are patentably distinct (MPEP § 806.04(h)). In the instant case, the intermediate product is deemed to be useful as a resistor or battery and the inventions are deemed patentably distinct since there is nothing on this record to show them to be obvious variants. Should applicant traverse on the ground that the species are not patentably distinct, applicant should submit evidence or identify such evidence now of record showing the species to be obvious variants or clearly admit on the record that this is the case. In either instance, if the examiner finds one of the inventions anticipated by the prior art, the evidence or admission may be used in a rejection under 35 U.S.C. 103(a) of the other invention.

Art Unit: 2831

10. Inventions III and V are related as process of making and product made. The inventions are distinct if either or both of the following can be shown: (1) that the process as claimed can be used to make other and materially different product or (2) that the product as claimed can be made by another and materially different process (MPEP § 806.05(f)). In the instant case the particles could be made by atomizing or chemical vapor deposition.

- Inventions IV and V are related as process of making and product made. The inventions are distinct if either or both of the following can be shown: (1) that the process as claimed can be used to make other and materially different product or (2) that the product as claimed can be made by another and materially different process (MPEP § 806.05(f)). In the instant case the particles could be made by atomizing or chemical vapor deposition.
- 12. Because these inventions are distinct for the reasons given above and have acquired a separate status in the art as shown by their different classification, restriction for examination purposes as indicated is proper.
- Because these inventions are distinct for the reasons given above and have acquired a separate status in the art because of their recognized divergent subject matter, restriction for examination purposes as indicated is proper.
- 14. A telephone call was made to Mr. David F. Dockery on May 21, and 24, 1999 to request an oral election to the above restriction requirement, but did not result in an election being made.

Applicant is advised that the reply to this requirement to be complete must include an election of the invention to be examined even though the requirement be traversed (37 CFR 1.143).

Page 7

Application/Control Number: 09/030,051

Art Unit: 2831

15. Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a petition under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(I).

## Conclusion

16. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Anthony Dinkins whose telephone number is (703) 308-0488. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Mrs. Kristine Kincaid can be reached at (703) 308-0640.

Anthony Dinkins

March 25, 1999

Xustine Xincaid
Kristine Kincaid
Supervisory Patent Examiner
Technology Center 2800